

Title (en)
Short-circuit isolator

Title (de)
Kurzschlussisolierer

Title (fr)
Isolateur de coupe-circuits

Publication
EP 2348497 A3 20120314 (EN)

Application
EP 11151204 A 20110118

Priority
JP 2010013174 A 20100125

Abstract (en)
[origin: EP2348497A2] Provided is a short-circuit isolator capable of earlier detection of recovery from short circuit of a disconnected line and reconnecting the line. The short-circuit isolator includes: a switch (SWB) for switching a connection state between a primary signal line and a secondary signal line; a short-circuit monitor circuit (B) which is connected to a primary wiring of the switch (SWB) through a resistor (RB3) as a current limiting section and connected to a secondary wiring of the switch (SWB), for detecting short circuit when a voltage of the secondary signal line is lower than a short-circuit detection threshold and detecting recovery from the short circuit when the voltage of the secondary signal line is higher than a short-circuit recovery threshold which is a voltage value lower than the short-circuit detection threshold after the short circuit is detected; and a switch control section (B) for turning off the switch (SWB) when the short circuit is detected by the short-circuit monitor circuit (B) and turning on the switch (SWB) when the recovery from the short circuit is detected by the short-circuit monitor circuit (B).

IPC 8 full level
G08B 26/00 (2006.01)

CPC (source: EP US)
G08B 26/005 (2013.01 - EP US)

Citation (search report)
• [A] JP S6319097 A 19880126 - HOCHIKI CO
• [A] US 5631795 A 19970520 - KOYAMA KIYOAKI [JP]
• [A] GB 2168517 A 19860618 - GENT LTD

Cited by
CN112185069A; EP3518201A4; US11875667B2; US11670932B2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2348497 A2 20110727; EP 2348497 A3 20120314; EP 2348497 B1 20130703; CA 2727483 A1 20110725; CA 2727483 C 20170801; CN 102136181 A 20110727; CN 102136181 B 20131204; JP 2011150641 A 20110804; JP 5274491 B2 20130828; MX 2011000957 A 20110830; US 2011181992 A1 20110728; US 8675324 B2 20140318

DOCDB simple family (application)
EP 11151204 A 20110118; CA 2727483 A 20110111; CN 201110026304 A 20110124; JP 2010013174 A 20100125; MX 2011000957 A 20110125; US 201113012559 A 20110124